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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/638,230	08/07/2003	Thomas J. Leck	FL1081USNA	5979	
23906	7590 08/04/2004		EXAMINER		
E I DU PONT DE NEMOURS AND COMPANY			HARDEE, JOHN R		
LEGAL PATE	ENT RECORDS CENTER	2			
BARLEY MII	LL PLAZA 25/1128		ART UNIT	PAPER NUMBER	
4417 LANCASTER PIKE			1751		
WILMINGTO	N. DE 19805				

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)					
Office Action Summary		10/638,230	LECK ET AL.					
		Examiner	Art Unit					
		John R. Hardee	1751					
Period fo	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
THE - Exte after - If the - If NC - Failt Any	MAILING DATE OF THIS COMMUNICATION. Insigns of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. It period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	I36(a). In no event, however, may a repl ly within the statutory minimum of thirty (a will apply and will expire SIX (6) MONTH e, cause the application to become ABAN	ly be timely filed 30) days will be considered time IS from the mailing date of this condoned (35 U.S.C. § 133).					
Status								
1)	Responsive to communication(s) filed on							
2a)□	This action is FINAL . 2b)⊠ This	s action is non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
 4) Claim(s) 1-23 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-10,14,17 and 20 is/are rejected. 7) Claim(s) 11-13,15,16,18,19 and 21-23 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 								
Applicati	ion Papers							
10)⊠	The specification is objected to by the Examine The drawing(s) filed on <u>07 August 2003</u> is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine	a) accepted or b) objed or b) objed or b) objed or abeyance of the drawing (s)	e. See 37 CFR 1.85(a). is objected to. See 37 Cl	FR 1.121(d).				
Priority (under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
Attachmen	t(s)							
1) Notice 2) Notice 3) Inform	se of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) or No(s)/Mail Date <u>030104</u> .	Paper No(s)/N	nmary (PTO-413) Mail Date rmal Patent Application (PTC	O-152)				

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DETAILED ACTION

Election/Restrictions

- 1. Applicant's election without traverse of Group IA in the reply filed on July 19, 2004 is acknowledged with appreciation. The restriction requirement is made FINAL.
- 2. No claims were withdrawn from consideration as being drawn to non-elected inventions, but the claims were searched and examined only to the extent that they read on the elected invention. No claims can pass to issue until all non-elected subject matter has been deleted from the claims.

Claim Objections

3. Claims 11-13, 15, 16, 18, 19 and 21-23 are objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim cannot depend from another multiple dependent claim. See MPEP § 608.01(n). Accordingly, the claims have not been further treated on the merits.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 1-3 and 6-9 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Grzyll et al., 2000. Tables 1 and 5 disclose the addition of 10-30% of

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tetraglyme, tetraethylene glycol dimethyl ether, to HFC 134a refrigerant containing POE, as well as improved performance in compression refrigeration resulting from said addition. As all of the limitations of the claims have been met, this disclosure constitutes anticipation.

6. Claims 1-3 and 6-9 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by EP 881,278. See examples. As all of the limitations of the claims have been met, this disclosure constitutes anticipation.

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 9. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein

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were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

- 10. Claims 1-10, 14, 17 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Grzyll et al., 2000. The disclosure of the reference is summarized above. A glycol ether in which R² is 3 or 4 is not disclosed. However, it would have been obvious at the time that the invewnion was made to use such a glycol ether, becase this is a one-carbon homolog of the exemplified tetraglyme. The person of ordinary skill in the refrigeration art would expect the recited compounds to have properties similar to those which are exemplified.
- 11. Claims 1-10, 14, 17 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over EP 881,278. The reference discloses a refrigerator oil useful for a refrigerant compressor using an HFC refrigerant, a working fluid for a refrigerator and a lubricant method using same. The refrigeration oil comprises a polyhydric alcohol ester and 0.5 to 4.5% of an ether, based on the amount of ester, as depicted at (1) on p. 2. The degree of polymerization is such that the compound has a molecular weight, most preferably, of 300-1200 (p. 3, line 55). Suitable refrigerants include HFCs, HCFCs and ammonia (p. 4, lines 38-40). This reference differs from the claimed subject matter in that it does not disclose a composition which reads on all of applicant's claims with sufficient specificity to constitute anticipation.

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It would have been obvious at the time the invention was made to make such a composition, because this reference teaches that all of the ingredients recited by applicants are suitable for inclusion in a refrigerant composition. The person of ordinary skill in the surfactant art would expect the recited compositions to have properties similar to those compositions which are exemplified, absent a showing to the contrary.

In the case where the claimed ranges overlap or lie inside ranges disclosed by the prior art, a *prima facie* case of obviousness exists. *In re Wertheim*, 541 F.2d 257, 191 USPQ 90 (CCPA 1976); *In re Woodruff*, 919 F.2d 1575, 16 USPQ2d 1934 (Fed Cir. 1990).

12. Any prior art made of record and not relied upon is of interest and is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to the examiner, Dr. John R. Hardee, whose telephone number is (571) 272-1318. The examiner can normally be reached on Monday through Friday from 8:00 until 4:30. In the event that the examiner is not available, his supervisor, Dr. Yogendra Gupta, may be reached at (571) 272-1316.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

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Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

John R. Hardee

Primary Examiner

August 2, 2004